

ABSTRACT OF THE DISCLOSURE

Assuming that inertia of ink in a flow passage is  $M$ , a viscosity resistance of the ink in the flow passage is  $R$ , and a return force of a meniscus in a nozzle when the ink is charged in the flow passage composed of a nozzle and a pressure generating chamber, the physical properties of the ink and the shape of the flow passage are set such that a relationship of  $0.2 \leq \gamma^2/\omega^2 \leq 1.0$  is satisfied, where  $\omega = \sqrt{K/M}$  and  $\gamma = R/2M$ .